

ABSTRACT

A comprehensive, practical and efficient architecture for a DSR client and server development platform is disclosed. A system comprising: DSR client module for capturing speech, extracting speech features, interpreting markup content and displaying content; DSR gateway module coupled for communication with the DSR client module, the DSR gateway module for receiving a markup document, interpreting tag elements of the markup document, and dynamically generating grammar from the markup document, and controlling display content navigation by speech recognition; and DSR document server coupled for communication with the DSR gateway module, the DSR document server for processing requests from the DSR gateway module and for producing a markup document in response.